

10/811, 317.

COFC

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June 1, 2006

I hereby certify that this correspondence and all marked attachments are being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on

6/1/06

(Date)

Bruce S. Itchkawitz, Reg. No. 47,677

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Re: Title: **SYSTEM AND METHOD FOR  
MEASUREMENTS OF DEPTH AND  
VELOCITY OF INSTRUMENTATION  
WITHIN A WELLBORE**

Letters Patent No. 6,957,580 B2

Issued: October 25, 2005

Our Reference: GYRO.013A

Certificate  
JUN 07 2006  
of Correction

Dear Sir:

Enclosed for filing is a Certificate of Correction in connection with the above-identified patent.

As the errors cited in the Certificate of Correction were incurred through the fault of the Patent Office, no fee is believed to be required. However, please charge our Deposit Account No. 11-1410 for any fees that may be incurred with this request.

Respectfully submitted,

Knobbe, Martens, Olson & Bear, LLP

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Enclosures

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# UNITED STATES PATENT AND TRADEMARK OFFICE

## CERTIFICATE OF CORRECTION

**PATENT NO.** : 6,957,580 B2  
**APPLICATION NO.** : 10/811,317  
**ISSUE DATE** : October 25, 2005  
**INVENTORS** : Roger Ekseth et al.

Page 1 of 2

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In Col. 10, Line 17 (approx.), delete --  $\sigma_0$  -- and insert --  $\Sigma_0$  --.

In Col. 10, Line 20, delete --  $k_{-1}$  -- and insert --  $k-1$  --.

In Col. 10, Line 55 (approx.), delete --  $p_1$  -- and insert --  $p_1$  --.

In Col. 10, Line 59, delete --  $2p_1/B$  -- and insert --  $2p/B$  --.

In Col. 11, Line 21 (approx.), after "and" delete --  $\sigma_{A_L,k}$  -- and insert --  $\sigma_{A_U,k}$  --.

In Col. 11, Line 28, delete --  $\sigma_{v,k}$  -- and insert --  $\sigma_{v,k}$  --.

In Col. 11, Line 31, after  $[\sigma_{S,k}^2]$  insert -- , --.

In Eq. 22 at Col. 12, Line 39 (approx.), delete --  $G_k = \tau_{k-} * \alpha_{A,k}^T * (\Psi_{A,k} + \alpha_{A,k} * \Sigma_{k-} * \alpha_{A,k})^{-1}$  -- and insert --  $G_k = \Sigma_{k-} * \alpha_{A,k}^T * (\Psi_{A,k} + \alpha_{A,k} * \Sigma_{k-} * \alpha_{A,k}^T)^{-1}$  --.

In Eq. 33 at Col. 14, Line 43 (approx.), delete --  $\sigma_{v,k} = (p_v * \alpha * (T_U - T_L)/\Delta t)^2 + 2\sigma_{det,k}^2 / (T_U - T_L)^2$  -- and insert --  $\sigma_{v,k}^2 = (p_v * \alpha * (T_U - T_L)/\Delta t)^2 + 2\sigma_{det,k}^2 / (T_U - T_L)^2$  --.

In Eq. 52 at Col. 16, Line 60, delete --  $G_k = \Sigma_{k-} * \alpha_{R,k}^T * (\Psi_{R,k} + \alpha_{R,k} * \Sigma_{k-} * \alpha_{R,k}^T)^{-1}$  -- and insert --  $G_k = \Sigma_{k-} * \alpha_{R,k}^T * (\Psi_{R,k} + \alpha_{R,k} * \Sigma_{k-} * \alpha_{R,k}^T)^{-1}$  --.

In Eq. 54 at Col. 16, Line 63 (approx.), delete --  $\Sigma_k = \Sigma_{k-} * G_k * \alpha_{R,k} * \Sigma_{k-}$  -- and insert --  $\Sigma_k = \Sigma_{k-} - G_k * \alpha_{R,k} * \Sigma_{k-}$  --.

In Col. 18, Line 33, Claim 17, delete -- claim 16 -- and insert -- claim 15 --.

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**INVENTORS** : Roger Ekseth et al.

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In Col. 18, Line 36 (approx.), Claim 18, delete -- claim 16 -- and insert -- claim 15 --.

In Col. 18, Line 38 (approx.), Claim 19, delete -- claim 16 -- and insert -- claim 15 --.

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